

**DRAKE UNIVERSITY**  
**Programs of Study**  
**Doctor of Pharmacy (PharmD)/Masters in Public Administration (MPA)**

**First Year**

<b>FALL</b>			<b>SPRING</b>		
BIO 012/L	Pre-professional Biology I & Lab (LIFE AOI)	4 CR	CHEM 002/4	General Chemistry II & Lab	4 CR
CHEM 001/3	General Chemistry I & Lab (PHSC AOI)	4 CR	ELEC ---	Drake Curriculum/General Electives	3 CR
ELEC ---	Drake Curriculum/General Electives	3 CR	HSCI 141/L	Human Anatomy/Lab	4 CR
FYS	First Year Seminar	3 CR	MATH 050	Calculus I	3 CR
INTD 025	Bulldog Foundations	1 CR	PHAR 031	CAPS II (Career, Academic & Professional Success)	0.5 CR
PHAR 011	CAPS I (Career, Academic & Professional Success)	0.5 CR			
<b>Semester Total Credit Hours</b>		<b>15.5</b>	<b>Semester Total Credit Hours</b>		<b>14.5</b>

**Second Year**

<b>FALL</b>			<b>SPRING</b>		
BIO 095	Medical Microbiology	3 CR	CHEM 108/10	Organic Chemistry II & Lab	4 CR
CHEM 097/98	Org Chem/Lab I OR PHY 011 OR BIO 103/L <sup>5</sup>	4 CR	ELEC ---	Drake Curriculum/General Electives	6 CR
ELEC ---	Drake Curriculum/Gen Elec. (WRIT AOI)	3 CR	PHAR 071	CAPS IV (Career, Academic & Professional Success)	0.5 CR
ELEC ---	Drake Curriculum/General Electives	6 CR	SCSR 073	Public Speaking (CITZ AOI)	3 CR
PHAR 051	CAPS III (Career, Academic & Professional Success)	0.5 CR	STAT 060	Stats for Life Sciences (OR HSCI 060) (CRIT AOI)	3 CR
<b>Semester Total Credit Hours</b>		<b>16.5</b>	<b>Semester Total Credit Hours</b>		<b>16.5</b>

**Doctor of Pharmacy 1**

<b>FALL</b>			<b>SPRING</b>		
ELEC ---	Drake Curriculum/General Electives	3 CR	PHAR 123	Continuing Professional Development (CPD) II	1 CR
PHAR 122	Continuing Professional Development (CPD) I	1 CR	PHAR 132	Pathophysiology	4 CR
PHAR 125	Physiology	4 CR	PHAR 133	Principles of Drug Action I	5 CR
PHAR 130	Biochemistry	4 CR	PHAR 138	Pharmaceutical Calculations	2 CR
PHAR 131	Intro to Pharm Science	3 CR	PHAR 140	Pharmaceutics I	2 CR
PHAR 144	Basic Pharmacy Skills & Applications 1	2 CR	PHAR 145	Basic Pharmacy Skills & Applications 2	2 CR
<b>Semester Total Credit Hours</b>		<b>17</b>	<b>Semester Total Credit Hours</b>		<b>19</b>

**SUMMER (OPTIONAL)**

MPA 2--	** See MPA Course List	6 CR			
<b>Semester Total Credit Hours</b>		<b>6</b>			

**Doctor of Pharmacy 2**

<b>FALL</b>			<b>SPRING</b>		
PHAR 134	Principles of Drug Action II	5 CR	MPA 2--	** See MPA Course List	3 CR
PHAR 141	Pharmaceutics II	3 CR	PHAR 135	Principles of Drug Action III	4 CR
PHAR 142	Kinetics	3 CR	PHAR 143	Therapeutic Drug Monitoring	2 CR
PHAR 149	Immunizations	1 CR	PHAR 155	Intermediate Pharmacy Skills & Applications II	2 CR
PHAR 154	Intermediate Pharmacy Skills & Applications I	2 CR	PHAR 168	Continuing Professional Development (CPD) IV	1.5 CR
PHAR 167	Continuing Professional Development (CPD) III	1.5 CR	PHAR 169	Nonprescription Therapies	3 CR
PHAR 172	Literature Evaluation Methods	3 CR			

<b>Semester Total Credit Hours</b>	<b>18.5</b>	PHAR 190      Therapeutics I	3 CR
		<b>Semester Total Credit Hours</b>	<b>18.5</b>
<b>SUMMER (OPTIONAL)</b>			
MPA 2--      ** See MPA Course List	6 CR		
<b>Semester Total Credit Hours</b>	<b>6</b>		
<b>Doctor of Pharmacy 3</b>			
<b>FALL</b>		<b>SPRING</b>	
MPA 2--      ** See MPA Course List	6 CR	MPA 2--      ** See MPA Course List	3 CR
PHAR 174      Management in Pharmacy	3 CR	PHAR 162      Pharmacy Law & Ethics	3 CR
PHAR 175      Continuing Professional Development (CPD) V	2 CR	PHAR 173      Applied Social and Administrative Pharmacy	3 CR
PHAR 184      Advanced Pharmacy Skills & Applications I	2 CR	PHAR 176      Continuing Professional Development (CPD) VI	2 CR
PHAR 191      Therapeutics II	5 CR	PHAR 185      Advanced Pharmacy Skills & Applications II	2 CR
<b>Semester Total Credit Hours</b>	<b>18</b>	PHAR 192      Therapeutics III	5 CR
		<b>Semester Total Credit Hours</b>	<b>18</b>
<b>SUMMER (OPTIONAL)</b>			
MPA 2--      ** See MPA Course List	3 CR		
<b>Semester Total Credit Hours</b>	<b>3</b>		
<b>Doctor of Pharmacy 4 (12 months/May through May)</b>			
<b>FALL</b>		<b>SPRING</b>	
PHAR 285      Rotations	22 CR	PHAR 285      Rotations	18 CR
<b>Semester Total Credit Hours</b>	<b>22</b>	<b>Semester Total Credit Hours</b>	<b>18</b>
<b>Total Program Hours: 227</b>			

**Program Notes:**

OPTIONAL SUMMER COURSE WORK: Students who wish to complete both degrees in the four professional years will need to plan to complete MPA courses during the summer sessions.

A total of 211 credits are required to complete the pharmacy degree.

Students will be expected to complete the Drake Curriculum requirements. Drake Curriculum requirements not fulfilled through required course work: Artistic Experience, Engaged Citizen, Historical Foundations (2 courses), Global and Cultural Understanding, and Written Communication.

Professional electives (5 cr.) are satisfied by MPA coursework (6 cr. for P1 students entering Fall 2019 and prior).

Students may enroll in additional summer coursework or complete final MPA courses after PharmD completion. If the dual curriculum requires more than 18 credit hours in the fall or spring semesters, a credit fee waiver will be requested on the student's behalf. If students wish to take beyond the required credit hours for the semester, they will need to request an "Over 18 Hours Request Form," which can be found in the Forms Library, and the additional course work will not qualify for an overload fee waiver.

**\*\* MPA Course List**

(also may be completed during summers or after obtaining PharmD)

- \*MPA 215 – Changing Environment and Management of Public and Nonprofit Organizations
- \*MPA 216 – Managing Human Resources as Assets
- \*MPA 217 - Applying Information, Research and Analysis in Nonprofit and Public Environments
- \*MPA 220 - Public Budget and Financial Management
- \*MPA 221 - Public Organizations and Leadership
- \*MPA 226 - Public Policy Decision Making and Analysis
- \*MPA 260 – Applying Innovative Solutions to Current Problems (Capstone)

Students in the combined program also complete two electives of 3 credits each.

Students who wish to complete an MPA area of emphasis should visit with a MPA advisor, as this requires additional coursework.

**Professional Electives Policy:** Core curricula of CPHS degree programs may require professional elective courses that permit exploration of and/or advanced study in areas of professional interest within the student's primary degree. Professional electives provide the student with an opportunity to not only pursue areas of intellectual interest, but also to develop an individual "brand" that may benefit them in their professional or academic future. Students who desire to have a non-approved elective count toward professional elective credit should apply for an exception to program policy prior to taking the course whenever possible. Professional electives must be taken for a grade unless the course is designed as credit/no credit. Students should refer to their degree audit for determination of the total number of required professional electives. Students should review the **student handbook** for the complete professional elective policy and details specific to their degree program.